	Application No.	Applicant(s)
Notice of Allowability	10/615,261	DESY, NORMAND
	Examiner	Art Unit
	Christopher Verdier	3745
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included  n will be mailed in due course. THIS
1. 🗵 This communication is responsive to Applicant's Preliminal	ry Amendment dated 7-29-04.	
2. The allowed claim(s) is/are 1-27.		
3. $\boxtimes$ The drawings filed on <u>07 July 2003</u> are accepted by the Ex	aminer.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm	e been received. e been received in Application No cuments have been received in this of this communication to file a reply IENT of this application.	national stage application from the complying with the requirements
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	ation is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") mus		
(a) including changes required by the Notice of Draftspers	· · · · · · · · · · · · · · · · · ·	948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(	ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	te .
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>7-7-03</u></li> <li>Examiner's Comment Regarding Requirement for Deposit</li> </ol>	8. 🛛 Examiner's Stateme	nent/Comment ent of Reasons for Allowance
of Biological Material	9.	
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#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Craig Wilson, Attorney of Record, on October 22, 2004.

The application has been amended as follows:

# In the Specification:

In paragraph 3, line 7, "5,914,842" has been changed to -- 5,924,842 --

In paragraph 17, line 2, after "passageways", -- along line III-III of Figure 2 -- has been inserted.

In paragraph 24, line 8, "per cent" has been changed to -- percent --.

## In the Claims:

In claim 1, line 13, "a" has been changed to -- the --.

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The above changes to the specification have been made to correct clerical errors and to change the description of figure 3. The above change to claim 1 has been made to improve the clarity and precision of claim 1.

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the instant application is directed towards an unobvious improvement over the invention patented in U.S. Patent 3,360,238. U.S. Patent 3,360,238 discloses a hydraulic turbine substantially as claimed including a rotatably mounted runner 14 with a crown 18 and a band 17, a stationary discharge ring 15, a circumferential chamber 20 formed between the band and the stationary discharge ring, with the chamber having a gas admission aperture 24 for receiving an oxygen containing gas into the chamber, an upper seal 37 positioned adjacent the upstream portion of the band, and a lower seal 29 positioned adjacent the downstream end of the band between the band and stationary discharge ring. The improvement comprises the downstream end portion of the band having a plurality of spaced apart vanes providing outlet passageways between the vanes in fluid communication with the circumferential chamber and the water passageway, with the vanes being configured to rotate with the band and draw the oxygen containing gas and water from the chamber through the outlet passageways and into the water passageway. None of the prior art of record discloses or suggests the improvement.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Prior Art

The prior art made of record but not relied upon is considered pertinent to Applicant's disclosure.

Pedersen is cited to show a hydraulic turbine with seals adjacent the impeller band.

Sproule '640 is cited to show a Francis turbine with a stationary baulk ring 21.

Sproule '719 is cited to show a Francis turbine with seals adjacent the impeller band.

Wuhrer is cited to show a Francis turbine with an air mixing zone.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Verdier whose telephone number is (703)-308-2638. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward K. Look can be reached on (703) 308-1044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.V. October 22, 2004 Christopher Verdier Primary Examiner Art Unit 3745